10/588295 IAP11 Rec'd PCT/PTO 04 AUG 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Chartrain, Michel; Bentley, Laura Kizer;

Krulewicz, Barbara Ann; Listner, Kristin M.; Sun.

Wen-jun; Lee, Chanyong Brian

Serial No.

To be assigned

Filed:

Herewith

For: PROCESS FOR LARGE SCALE PRODUCTION OF

PLASMID DNA BY E. COLI FERMENTATION

Art Unit: To be assigned

Examiner:

To be assigned

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT **UNDER 37 CFR 1.97**

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- 3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

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5. Pursuant to 37 C.F.R. 1.98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

	RELATED APPLICATION			
U. S. SERIAL NUMBER	FILING DATE	MERCK CASE		
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this is inconvenient, additional copies will be submitted upor	request.			
6. In accordance with 37 C.F.R. 1.97, (check one)				

the attached information is filed within three months of the filing date of the captioned case. the attached information is filed more than three months after the filing date but prior to the mailing of a first Office Action on the merits. the attached information is filed before the mailing of a first Office action after the filing of a request for continued examination under §1.114. the attached information is being filed more than three months after the filing date and after the mailing of a first Office Action on the merits, but before the mailing date of a Final Action, Notice of Allowance, or an action that otherwise closes prosecution in the application. The enclosed authorization is therefore given to charge Deposit Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p). each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement. each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the information disclosure statement. no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated under 37 C.F.R. 1.56(c) more than three months prior to the filing of this Statement. Respectfully submitted,

Respectfully submitted,

Laura M. Ginkel

Attorney For Applicant(s)

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Date: <u>August</u> 4, 2006

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3	STATEMENT BY APPLICANT			First Named Inventor	Chartrain, Michel
				Group Art Unit	To be assigned
	(use as many sheets as necessary)			Examiner Name	To be assigned
Sheet	1	of	3	Attorney Docket Number	21502P

			U.S. PA	ATENT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	A	4,604,234		Setsuro Fugii, et al.	08/05/1986
	В	5,015,573		Geoffrey T. Yarranton, et al.	05/14/1991
	С	5,639,658		Kenneth Mitchell Drobish, et al.	06/17/1997
	D	5,914,390		Ranga Nathan, et al.	06/22/1999
	E	6,503,738		David R. Thatcher, et al.	01/07/2003
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	FOREIGN PATENT DOCUMENTS								
	a :	Foreign Patent Document				Date of Publication of			
Examiner Initials*	Cite No.	Office		Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY		
	F	wo	96/40905			Theresa C. Olson, et al.	12/19/1996		
	G	wo	98/37179			Wilhelmus De Laat	08/27/1998		
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Examiner Signature Date Considered

^{*}Examiner. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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7/SB/08A (07-05). Information Disclosure Statement by Applicant Refert and Trademark Office: U.S.DEPARTMENT OF COMMERCE PARETE IF KNOWN Substitute for form 1449B/PTO To be assigned Application Number INFORMATION DISCLOSURE Filing Date Herewith STATEMENT BY APPLICANT First Named Inventor Chartrain, Michel Group Art Unit To be assigned (use as many sheets as necessary) Examiner Name To be assigned 2 3 Sheet of Attorney Docket Number 21502P

	NON PATENT LITERATURE DOCUMENTS							
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	A	CHEN, W., ET AL., Journal of Industrial Microbiology & Biotechnology, "Automated fed-batch fermentation with feed-back controls based on dissolved oxygen (DO) and pH for production of DNA vaccines", Vol. 18, pages 43-48, 1997.						
	В	ELY, SUSAN, ET AL., Mol. Gen Genet, "Regulation of plasmid DNA synthesis: Isolation and characterization of copy number mutants of miniR6-5 and miniF plasmids", Vol. 181, pages 29-35, 1981.						
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Examiner Signature	Date Considered	

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STATEMENT BY APPLICANT				Filing Date	Herewith
				First Named Inventor	Chartrain, Michel
				Group Art Unit	To be assigned
(use as many sheets as necessary)				Examiner Name	To be assigned
Sheet	3	of	3	Attorney Docket Number	21502P

	NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.						
	P	WANG, ZHIJUN, ET AL., Process Biochemistry, "Medium design for plasmid DNA production based on stoichiometric model", Vol. 36, pages 1085-1093, 2001.						
	Q	YEE, L., ET AL., Biotechnology, "Recombinant protein expression in high cell density fed-batch cultures of <i>Escherichia coli</i> ", Vol. 10, pages 1150-1556, 1992.						
	R	ZHANG, J., ET AL., Appl. Microbiol. Biotechology, "Chemically defined media for commercial fermentations", Vol. 51, pages 407-421, 1999.						
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Examiner Signature	/Michele K. Joike/	Date Considered	06/07/2009

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